MATH 110.3 (05) T1 2004

Quiz One – September 21, 2004 – 30 Minutes

No books, notes or calculators are allowed. Encode your student number in the upper left corner of the opscan sheet. Print your name in the space indicated at the top of the opscan sheet. This is a multiple-choice computer-marked quiz. Use a soft pencil. Return only the opscan sheet. Keep the question sheet and the scratch booklet. Each answer is worth one point. The possible answers for each question are

A) 0 *B)* 1 *C)* 2 *D)* 3 *E)* 4 *F)* 5 *G)* 6 *H)* 7 *I)* 8 *J)* 9

The solution set of the inequality $x^2 - x - 2 < 0$ is the interval $(-a, b)$ where

1) $a =$ **2)** $b =$

The solution set of the equation $|2x + 3| = 1$ is the set $\{-a, -b\}$ where

3) $a =$ **4)** $b =$

Let $d = \sqrt{10a + b}$ be the distance between the points $(-3, 1)$ and $(4, -4)$. Then

5) $a =$ **6)** $b =$

If $y = mx + b$ is the equation of the line through the points $(1, 5)$ and $(2, 8)$ then

7) $m =$ **8)** $b =$

If $g(x) = 2x^2 - x + 4$ then

9) $g(-1) =$

The domain of the function $f(x) = \sqrt{4 - x} + \frac{1}{x-1}$ is the set $(-\infty, a) \cup (a, b]$ where

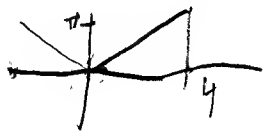
10) $a =$ **11)** $b =$

$\sin \frac{\pi}{4} = \frac{a}{\sqrt{b}}$ where

12) $a =$ **13)** $b =$

If $\cos\theta = \frac{\sqrt{7}}{4}$, then $\sin\theta = \frac{a}{b}$ where

14) $a =$ **15)** $b =$



$4^2 = (\pi)^2$

$16 = \pi^2$

$4^2 = (\sqrt{7})^2$

$16 = 7$ =

$4 = x^2$

4 | 90